

WHAT IS CLAIMED IS:

1. A power supply device comprising:

a plurality of power supply units, each of said power supply unit comprising:

5 a main power supply unit generating a load voltage supply to be supplied to a load;

a control unit informing the outside of the result of monitoring of each section; ¹¹⁷ 112

10 a control power supply unit generating a controlling voltage to be supplied to the control unit;

wherein said power supply units being constituted as a parallel redundancy structure; and

wherein each of said control unit in the power supply units is parallel connected to the control power supply unit
15 in other power supply units in addition to the control power supply of the power supply unit thereof.

2. The power supply device according to claim 1 further comprising converting unit being inserted in the upstream side
20 of the control unit, converting the inputted controlling voltage supply into a constant controlling voltage supply, and supplying the controlling voltage supply to the control unit.

3. The power supply device according to claim 1 further comprising a rush current prevention unit being provided in each downstream side of the main power supply unit, the control power supply unit, and the control unit so as to prevent a rush current from flowing in.

4. A power supply unit comprising:

10 a control unit informing the outside of the result of
monitoring of each section;

wherein said power supply unit constituting a part of
15 a parallel redundancy structure of a power supply device along
with other power supply units; and

5. A power supply unit comprising:

25 a control power supply unit generating a controlling

voltage supply to be supplied to the control unit;

5 wherein said control unit is parallel connected to the
control power supply unit in the other power supply units in
addition to the control power supply unit of the power supply
unit thereof.